

## **FACILITY PERMIT TO OPERATE**

**RRI ENERGY ETIWANDA, INC.  
8996 ETIWANDA AVE  
ETIWANDA, CA 91739**

### **NOTICE**

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Barry R. Wallerstein, D. Env.  
EXECUTIVE OFFICER

By \_\_\_\_\_  
Mohsen Nazemi, P.E.  
Deputy Executive Officer  
Engineering & Compliance



## FACILITY PERMIT TO OPERATE RRI ENERGY ETIWANDA, INC.

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## **FACILITY PERMIT TO OPERATE RRI ENERGY ETIWANDA, INC.**

### **SECTION A: FACILITY INFORMATION**

LEGAL OWNER &/OR OPERATOR: RRI ENERGY ETIWANDA, INC.

LEGAL OPERATOR (if different than owner):

EQUIPMENT LOCATION: 8996 ETIWANDA AVE  
ETIWANDA, CA 91739

MAILING ADDRESS: 7251 AMIGO ST STE# 120  
LAS VEGAS, NV 89119

RESPONSIBLE OFFICIAL: LEE MOORE

TITLE: GENERAL MANAGER

TELEPHONE NUMBER: (909) 899-7241

CONTACT PERSON: BRIAN MCQUOWN

TITLE: SENIOR AIR QUALITY SPECIALIST

TELEPHONE NUMBER: (702) 407-4861

TITLE V PERMIT ISSUED: April 10, 2009

TITLE V PERMIT EXPIRATION DATE: April 09, 2014

TITLE V		RECLAIM	
YES	NOx:	YES	
	SOx:	NO	
	CYCLE:	1	
	ZONE:	INLAND	

## FACILITY PERMIT TO OPERATE RRI ENERGY ETIWANDA, INC.

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 2 : INTERNAL COMBUSTION ENGINES</b>					
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, LIQUIFIED PETROLEUM GAS, HERCULES, MODEL HXLE, 4 CYCLE, 6 CYLINDERS, NATURALLY ASPIRATED, 79 HP A/N: 409111	D3		NOX: PROCESS UNIT**	NOX: 3.9 GRAM/BHP-HR LPG (5) [RULE 2009,5-11-2001] ; NOX: 139 LBS/1000 GAL LPG (1) [RULE 2012,5-11-2001;RULE 2012,12-5-2003]  PM: (9) [RULE 404,2-7-1986]	D12.1
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, DIESEL FUEL, CUMMINS, MODEL CFP9E-F60, WITH AFTERCOOLER, TURBOCHARGER, 359 BHP A/N:	D95			CO: 1.42 GRAM/BHP-HR DIESEL (4); NOX: 2.39 GRAM/BHP-HR DIESEL (4); PM10: 0.12 GRAM/BHP-HR DIESEL (4); VOC: 0.12 GRAM/BHP-HR DIESEL (4)	C1.4, D12.9, I296.2, K67.5
<b>Process 4 : POWER GENERATION-BOILERS</b>					
BOILER, NO. 3, NATURAL GAS, COMBUSTION ENGINEERING, TANGENTIALLY FIRED, WITH STAGED COMBUSTION, FLUE GAS RECIRCULATION, OXYGEN CONTENT CONTROL, 2900 MMBTU/HR WITH A/N: 431106	D22	C55 C57	NOX: MAJOR SOURCE**	CO: 2000 PPMV (5A) [RULE 407,4-2-1982] ; CO: 500 PPMV (5) [RULE 1303(b)(2)-Offset,5-10-1996] ; NOX: 7 PPMV (5) [RULE 2009,5-11-2001]  NOX: 10.75 LBS/1000 GAL FUEL OIL (1) [RULE 2012,5-11-2001;RULE 2012,12-5-2003] ; PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981]	A195.1, A195.6, D28.1, E193.4

\* (1)(1A)(1B) Denotes RECLAIM emission factor  
(3) Denotes RECLAIM concentration limit  
(5)(5A)(5B) Denotes command and control emission limit  
(7) Denotes NSR applicability limit  
(9) See App B for Emission Limits  
(2)(2A)(2B) Denotes RECLAIM emission rate  
(4) Denotes BACT emission limit  
(6) Denotes air toxic control rule limit  
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)  
(10) See Section J for NESHAP/MACT requirements  
\*\* Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

## FACILITY PERMIT TO OPERATE RRI ENERGY ETIWANDA, INC.

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 4 : POWER GENERATION-BOILERS</b>					
BURNER, TWENTY FOUR, NATURAL GAS, COMBUSTION ENGINEERING, WITH STAGED COMBUSTION, 2900 MMBTU/HR  GENERATOR, 320 MW				<b>SO2:</b> (9) [40CFR 72 - Acid Rain Provisions,11-24-1997] ; <b>SOX:</b> 500 PPMV FUEL OIL (5) [RULE 407,4-2-1982]	
SELECTIVE CATALYTIC REDUCTION, SYSTEM A, SERVING BOILER NO. 3, IN-DUCT TYPE, HALDOR TOPSOE, VANADIUM/TUNGSTEN TITANIUM, 1151 CU.FT.; WIDTH: 33 FT; HEIGHT: 16 FT; LENGTH: 23 FT WITH A/N: 431108  AMMONIA INJECTION, GRID A	C55	D22		<b>NH3:</b> 10 PPMV (4) [RULE 1303(a)(1)-BACT,5-10-1996]	A195.5, D12.3, D12.4, D12.5, D28.4, E179.2, E179.3, E193.4
SELECTIVE CATALYTIC REDUCTION, SYSTEM B, SERVING BOILER NO. 3, IN-DUCT TYPE, HALDOR TOPSOE, VANADIUM/TUNGSTEN TITANIUM, 1151 CU.FT.; WIDTH: 33 FT; HEIGHT: 16 FT; LENGTH: 23 FT WITH A/N: 431108  AMMONIA INJECTION, GRID B	C57	D22		<b>NH3:</b> 10 PPMV (4) [RULE 1303(a)(1)-BACT,5-10-1996]	A195.5, D12.3, D12.4, D12.5, D28.4, E179.2, E179.3, E193.4

\* (1)(1A)(1B) Denotes RECLAIM emission factor (2)(2A)(2B) Denotes RECLAIM emission rate  
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit  
(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit  
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)  
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

\*\* Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

<p>* (1)(1A)(1B) Denotes RECLAIM emission factor</p> <p>(3) Denotes RECLAIM concentration limit</p> <p>(5)(5A)(5B) Denotes command and control emission limit</p> <p>(7) Denotes NSR applicability limit</p> <p>(9) See App B for Emission Limits</p>	<p>(2)(2A)(2B) Denotes RECLAIM emission rate</p> <p>(4) Denotes BACT emission limit</p> <p>(6) Denotes air toxic control rule limit</p> <p>(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)</p> <p>(10) See Section J for NESHAP/MACT requirements</p>
<p>** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.</p>	



## FACILITY PERMIT TO OPERATE RRI ENERGY ETIWANDA, INC.

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 4 : POWER GENERATION-BOILERS</b>					
AMMONIA INJECTION, GRID C					
SELECTIVE CATALYTIC REDUCTION, SYSTEM D, SERVING BOILER NO. 4, IN-DUCT TYPE, HALDOR TOPSOE, VANADIUM/TUNGSTEN TITANIUM, 1151 CU.FT.; WIDTH: 33 FT; HEIGHT: 16 FT; LENGTH: 23 FT WITH A/N: 431124  AMMONIA INJECTION, GRID D	C61	D24		NH3: 10 PPMV (4) [RULE 1303(a)(1)-BACT,5-10-1996]	A195.5, D12.3, D12.4, D12.5, D28.4, E179.2, E179.3, E193.4
<b>Process 5 : AMMONIA STORAGE</b>					
STORAGE TANK, PRESSURIZED, NO. 1, WITH A VAPOR RETURN LINE, AQUEOUS AMMONIA 19%, 10000 GALS A/N: 375852	D63				C157.1, E144.1, E193.4
STORAGE TANK, PRESSURIZED, NO. 2, WITH A VAPOR RETURN LINE, AQUEOUS AMMONIA 19%, 10000 GALS A/N: 376914	D64				C157.1, E144.1, E193.4
<b>Process 6 : R219 EXEMPT EQUIPMENT SUBJECT TO SOURCE-SPECIFIC RULE</b>					
RULE 219 EXEMPT EQUIPMENT, ABRASIVE BLASTING EQUIPMENT, GLOVE-BOX, <= 53 FT3, WITH DUST FILTER	E50			PM: (9) [RULE 1140,8-2-1985;RULE 404,2-7-1986;RULE 405,2-7-1986]	D322.1, D381.1, K67.1

\* (1)(1A)(1B) Denotes RECLAIM emission factor  
(3) Denotes RECLAIM concentration limit  
(5)(5A)(5B) Denotes command and control emission limit  
(7) Denotes NSR applicability limit  
(9) See App B for Emission Limits  
(2)(2A)(2B) Denotes RECLAIM emission rate  
(4) Denotes BACT emission limit  
(6) Denotes air toxic control rule limit  
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)  
(10) See Section J for NESHAP/MACT requirements  
\*\* Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

## FACILITY PERMIT TO OPERATE RRI ENERGY ETIWANDA, INC.

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 6 : R219 EXEMPT EQUIPMENT SUBJECT TO SOURCE-SPECIFIC RULE</b>					
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS	E52			<b>ROG:</b> (9) [RULE 1113,11-8-1996;RULE 1113,12-5-2003;RULE 1171,8-2-2002;RULE 1171,11-7-2003]	K67.2
RULE 219 EXEMPT EQUIPMENT, COOLING TOWERS	E54				H23.4
<b>Process 7 : WASTE WATER TREATMENT</b>					
SUMP, WASTE WATER, OPEN TOP, CATCH BASIN, WIDTH: 24 FT; DEPTH: 11 FT; LENGTH: 20 FT A/N: 340465	D53				E179.1, E202.1, K67.3

\* (1)(1A)(1B) Denotes RECLAIM emission factor  
(3) Denotes RECLAIM concentration limit  
(5)(5A)(5B) Denotes command and control emission limit  
(7) Denotes NSR applicability limit  
(9) See App B for Emission Limits  
(2)(2A)(2B) Denotes RECLAIM emission rate  
(4) Denotes BACT emission limit  
(6) Denotes air toxic control rule limit  
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)  
(10) See Section J for NESHAP/MACT requirements  
\*\* Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

**FACILITY PERMIT TO OPERATE  
RRI ENERGY ETIWANDA, INC.**

**SECTION D: DEVICE ID INDEX**

**The following sub-section provides an index  
to the devices that make up the facility  
description sorted by device ID.**

# **FACILITY PERMIT TO OPERATE RRI ENERGY ETIWANDA, INC.**

## **SECTION D: DEVICE ID INDEX**

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D3	1	2	0
D22	1	4	0
D24	3	4	0
E50	4	6	0
E52	5	6	0
D53	5	7	0
E54	5	6	0
C55	2	4	0
C57	2	4	0
C59	3	4	0
C61	4	4	0
D63	4	5	0
D64	4	5	0
D95	1	2	0

## FACILITY PERMIT TO OPERATE RRI ENERGY ETIWANDA, INC.

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

#### FACILITY CONDITIONS

F9.1 Except for open abrasive blasting operations, the operator shall not discharge into the atmosphere from any single source of emissions whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:

- (a) As dark or darker in shade as that designated No.1 on the Ringelmann Chart, as published by the United States Bureau of Mines; or
- (b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subparagraph (a) of this condition.

**[RULE 401, 3-2-1984; RULE 401, 9-11-1998]**

F18.1 Acid Rain SO2 Allowance Allocation for affected units are as follows:

Device ID	Boiler ID	Contaminant	Tons in any year
18	Boiler No. 1	SO2	115
20	Boiler No. 2	SO2	29
22	Boiler No. 3	SO2	1362
24	Boiler No. 4	SO2	261

- a). The allowance allocation(s) shall apply to calendar years 2000 through 2009.
- b). The number of allowances allocated to Phase II affected units by U.S. EPA may change in a 1998 revision to 40CFR73 Tables 2,3, and 4. In addition, the number of allowances actually held by an affected source in a unit account may differ from the number allocated by U.S. EPA. Neither of the aforementioned conditions necessitate a revision to the unit SO2 allowance allocations identified in this permit (see 40 CFR 72.84)

**[40CFR 73 Subpart B, 1-11-1993]**

## **FACILITY PERMIT TO OPERATE RRI ENERGY ETIWANDA, INC.**

### **SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

The operator shall comply with the terms and conditions set forth below:

**F24.1 Accidental release prevention requirements of Section 112(r)(7):**

a). The operator shall comply with the accidental release prevention requirements pursuant to 40 CFR Part 68 and shall submit to the Executive Officer, as a part of an annual compliance certification, a statement that certifies compliance with all of the requirements of 40 CFR Part 68, including the registration and submission of a risk management plan (RMP).

b). The operator shall submit any additional relevant information requested by the Executive Officer or designated agency.

**[40CFR 68 - Accidental Release Prevention, 5-24-1996]**

### **DEVICE CONDITIONS**

#### **A. Emission Limits**

A195.1 The 500 PPM CO emission limit(s) is averaged over 60 minutes.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D22, D24]

## **FACILITY PERMIT TO OPERATE RRI ENERGY ETIWANDA, INC.**

### **SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

The operator shall comply with the terms and conditions set forth below:

A195.5 The 10 PPMV NH<sub>3</sub> emission limit(s) is averaged over 60 minutes at 3 percent oxygen, dry. The operator shall calculate and continuously record the ammonia slip concentration using the following:.

$$\text{NH}_3 \text{ (ppmv)} = [a - (b \cdot c / 1000000)] \cdot 1000000 / b, \text{ where: .}$$

a = ammonia injection rate (lbs/hr)/17 (lbs/lb-mole).

b = dry exhaust gas flow rate (lbs/hr)/29 (lbs/lb-mole).

c = change in measured NO<sub>x</sub> across the SCR (ppmv, dry basis).

The operator shall install and maintain a NO<sub>x</sub> analyzer to measure the SCR inlet NO<sub>x</sub> ppmv accurate to plus or minus 5 percent calibrated at least once every 12 months.

The ammonia slip calculation procedures described above shall not be used for compliance determination or emission information determination without corroborative data using District Method 207.1 and 5.3 or EPA Method 17 for the determination of ammonia.

**[RULE 1303(a)(1)-BACT, 5-10-1996]**

[Devices subject to this condition : C55, C57, C59, C61]

## **FACILITY PERMIT TO OPERATE RRI ENERGY ETIWANDA, INC.**

### **SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

The operator shall comply with the terms and conditions set forth below:

A195.6 The 7.0 PPMV NOX emission limit(s) is averaged over 720 operating hours, heat input weighted average, at 3 percent oxygen, dry.

A data acquisition system shall be installed and maintained to continuously calculate and record the NOx ppmv based on the 720 operating hour average..

The average shall be calculated based on emissions during all boiler operating hours except start ups defined as whenever the unit is being brought up to normal operating temperature from an inactive status, and the exhaust temperature entering the SCR catalyst is less than 450 F, and shutdowns defined as whenever the unit is allowed to cool from a normal operating temperature to inactive status, and the exhaust temperature entering the SCR catalyst is less than 450 F.

The average shall be calculated based on emissions during all boiler operating hours except calibration and maintenance periods, Part 75 linearity testing, RATA testing, equipment breakdown periods as defined in Rule 2004, and periods of zero fuel flow.

The heat input weighted average NOx concentration shall be calculated using the following equation, or other equivalent equation:

$$\text{PPMV at 3 percent oxygen} = \text{Et}/\text{Qt} \times \text{K}$$

where:

PPMV at 3 percent oxygen = Concentration of NOx in PPMv at 3 percent oxygen

Et = Total reported NOx emissions during the averaging period including emissions reported as a result of missing data procedures pursuant to Rule 2012

Qt = Total heat input during the averaging period

K = A conversion factor from lbs/MMBtu to PPM, which can be determined using EPA 40 CFR60 Method 19. The default K value is 819.

[RULE 2009, 5-11-2001]

[Devices subject to this condition : D22, D24]

### **C. Throughput or Operating Parameter Limits**



## **FACILITY PERMIT TO OPERATE RRI ENERGY ETIWANDA, INC.**

### **SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

The operator shall comply with the terms and conditions set forth below:

C1.4 The operator shall limit the operating time to no more than 200 hour(s) in any one year.

The 200 hours per year shall include no more than 50 hours in any one year for maintenance and testing purposes.

[RULE 1110.2, 2-1-2008; **RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996**; RULE 1470, 6-1-2007]

[Devices subject to this condition : D95]

C157.1 The operator shall install and maintain a pressure relief valve set at 25 psig.

[**RULE 1303(a)(1)-BACT, 5-10-1996**]

[Devices subject to this condition : D63, D64]

### **D. Monitoring/Testing Requirements**

D12.1 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

[RULE 1110.2, 11-14-1997; **RULE 2012, 5-11-2001**; **RULE 2012, 12-5-2003**]

[Devices subject to this condition : D3]

D12.3 The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the total hourly throughput of injected ammonia (NH<sub>3</sub>).

The operator shall also install and maintain a device to continuously record the parameter being measured.

The measuring device or gauge shall be accurate to within plus or minus 5 percent. The accuracy of the device shall be verified once every 12 months.

The operator shall maintain the ammonia injection rate between 0 and 2 gpm on a 1 hour average basis

[**RULE 2012, 5-11-2001**; **RULE 2012, 12-5-2003**]

[Devices subject to this condition : C55, C57, C59, C61]

## **FACILITY PERMIT TO OPERATE RRI ENERGY ETIWANDA, INC.**

### **SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

The operator shall comply with the terms and conditions set forth below:

- D12.4 The operator shall install and maintain a(n) pressure gauge to accurately indicate the differential pressure across the SCR catalyst bed in inches of water column.

The operator shall also install and maintain a device to continuously record the parameter being measured.

The measuring device or gauge shall be accurate to within plus or minus 5 percent. It shall be calibrated once every 12 months.

The operator shall maintain the differential pressure between 0 and 7.5 inches of water column on a 1 hour average basis

**[RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]**

[Devices subject to this condition : C55, C57, C59, C61]

- D12.5 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature of the boiler exhaust at the inlet of the SCR reactor.

The operator shall also install and maintain a device to continuously record the parameter being measured.

The measuring device or gauge shall be accurate to within plus or minus 5 percent. It shall be calibrated once every 12 months.

The operator shall maintain the temperature between 450 and 700 degrees F except during start ups and shutdowns

**[RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]**

[Devices subject to this condition : C55, C57, C59, C61]

- D12.9 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

**[RULE 1110.2, 2-1-2008; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 1470, 6-1-2007]**

[Devices subject to this condition : D95]

## **FACILITY PERMIT TO OPERATE RRI ENERGY ETIWANDA, INC.**

### **SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

The operator shall comply with the terms and conditions set forth below:

D28.1 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted to demonstrate compliance with the Rule 1303 emission limit for CO.

The test shall be conducted to determine the CO emissions at the outlet when the equipment is operating under normal conditions.

The test shall be conducted to determine compliance with the CO emissions by either: (a) conducting a source test using District method 100.1 measured over a 30 minute averaging time, or (b) using a portable analyzer and District-approved test method.

The test shall be conducted at least annually. No test shall be required in any one calendar year during which the equipment does not operate on any day that year.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 8-11-1995; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : D22, D24]

D28.4 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted to determine the NH<sub>3</sub> emissions using District Methods 207.1 and 5.3, or EPA Method 17 measured over a 60 minute averaging time period. The NO<sub>x</sub> concentration, as determined by reading the CEMS, shall be simultaneously recorded during the test. If the CEMS is inoperable, a test shall be conducted to determine the NO<sub>x</sub> emissions using District Method 100.1 measured over a 60 minute averaging time period.

The test shall be conducted during ammonia injection periods, at least quarterly during the first twelve months of operation of the SCR after the initial performance test, and at least annually (calendar) thereafter. No test shall be required in any one calendar year during which the equipment does not operate on any day that year.

The District shall be notified of the date and time of the test at least 7 days prior to the test.

The test shall be conducted to demonstrate compliance with the Rule 1303 concentration limit.

The test shall be conducted and the results submitted to the District within 45 days after the test date.

**[RULE 1303(a)(1)-BACT, 5-10-1996]**

[Devices subject to this condition : C55, C57, C59, C61]

## **FACILITY PERMIT TO OPERATE RRI ENERGY ETIWANDA, INC.**

### **SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

The operator shall comply with the terms and conditions set forth below:

D322.1 The operator shall perform annual inspection of the equipment and filter media for leaks, broken or torn filter media, and improperly installed filter media.

**[RULE 3004(a)(4)-Periodic Monitoring, 8-11-1995]**

[Devices subject to this condition : E50]

D381.1 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on an annual basis, at least, unless the equipment did not operate during the entire annual period. The routine annual inspection shall be conducted while the equipment is in operation and during daylight hours. If any visible emissions (not including condensed water vapor) are detected, the operator shall take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit.

The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

- 1). Stack or emission point identification;
- 2). Description of any corrective actions taken to abate visible emissions; and
- 3). Date and time visible emission was abated.

**[RULE 3004(a)(4)-Periodic Monitoring, 8-11-1995]**

[Devices subject to this condition : E50]

### **E. Equipment Operation/Construction Requirements**

E144.1 The operator shall vent this equipment, during filling, only to the vessel from which it is being filled.

**[RULE 1303(a)(1)-BACT, 5-10-1996]**

[Devices subject to this condition : D63, D64]

## **FACILITY PERMIT TO OPERATE RRI ENERGY ETIWANDA, INC.**

### **SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

The operator shall comply with the terms and conditions set forth below:

- E179.1 For the purpose of the following condition number(s), clean and maintain shall be defined as draining and vacuuming.

Condition Number 202-1

[RULE 402, 5-7-1976]

[Devices subject to this condition : D53]

- E179.2 For the purpose of the following condition number(s), continuously record shall be defined as recording at least once every month and shall be calculated based upon the average of the continuous monitoring for that month.

Condition Number 12-4

**[RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]**

[Devices subject to this condition : C55, C57, C59, C61]

- E179.3 For the purpose of the following condition number(s), continuously record shall be defined as recording at least once every hour and shall be calculated based upon the average of the continuous monitoring for that hour.

Condition Number D 12- 5

Condition Number D 12- 3

Condition Number A 195- 5

**[RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]**

[Devices subject to this condition : C55, C57, C59, C61]

## **FACILITY PERMIT TO OPERATE RRI ENERGY ETIWANDA, INC.**

### **SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

The operator shall comply with the terms and conditions set forth below:

E193.4 The operator shall construct, operate, and maintain this equipment according to the following specifications:

In accordance with all the mitigation measures stipulated in the CEQA document that was prepared for this project by the South Coast AQMD (SCH No. 2001021027)

[CA PRC CEQA, 11-23-1970]

[Devices subject to this condition : D22, D24, C55, C57, C59, C61, D63, D64]

E202.1 The operator shall clean and maintain this equipment according to the following specifications:

whenever the catch basin is full, and at least once per year

[RULE 402, 5-7-1976]

[Devices subject to this condition : D53]

### **H. Applicable Rules**

H23.4 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
Chromium, Hexavalent	District Rule	1404

The operator has submitted 2 consecutive tests showing hexavalent chrome levels below 0.15 mg/l of circulating water, therefore, as of July 2005, periodic water testing under 1404(b)(5) is no longer required

[RULE 1404, 4-6-1990]

[Devices subject to this condition : E54]

### **I. Administrative**

## **FACILITY PERMIT TO OPERATE RRI ENERGY ETIWANDA, INC.**

### **SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

The operator shall comply with the terms and conditions set forth below:

- I296.2 This equipment shall not be operated unless the operator demonstrates to the Executive Officer that the facility holds sufficient RTCs to offset the prorated annual emissions increase for the first compliance year of operation. In addition, this equipment shall not be operated unless the operator demonstrates to the Executive Officer that, at the commencement of each compliance year after the first compliance year of operation, the facility holds sufficient RTCs in an amount equal to the annual emissions increase.

To comply with this condition, the operator shall hold, prior to the 1st compliance year, and at the beginning of each subsequent compliance year, a minimum of 378 lbs/yr NO<sub>x</sub> RTC

**[RULE 2005, 5-6-2005]**

[Devices subject to this condition : D95]

### **K. Record Keeping/Reporting**

- K67.1 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

the name of the person performing the inspection and/or maintenance of the dust collector

the date, time and results of the inspection

the date, time and description of any maintenance or repairs resulting from the inspection

**[RULE 3004(a)(4)-Periodic Monitoring, 8-11-1995]**

[Devices subject to this condition : E50]

## **FACILITY PERMIT TO OPERATE RRI ENERGY ETIWANDA, INC.**

### **SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

The operator shall comply with the terms and conditions set forth below:

K67.2 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

For architectural applications where no thinners, reducers, or other VOC containing materials are added, maintain semi-annual records for all coating consisting of (a) coating type, (b) VOC content as supplied in grams per liter (g/l) of materials for low-solids coatings, (c) VOC content as supplied in g/l of coating, less water and exempt solvent, for other coatings.

For architectural applications where thinners, reducers, or other VOC containing materials are added, maintain daily records for each coating consisting of (a) coating type, (b) VOC content as applied in grams per liter (g/l) of materials used for low-solids coatings, (c) VOC content as applied in g/l of coating, less water and exempt solvent, for other coatings.

**[RULE 3004(a)(4)-Periodic Monitoring, 8-11-1995]**

[Devices subject to this condition : E52]

K67.3 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

a log listing the date and time the catch basin is drained or vacuumed

**[RULE 402, 5-7-1976]**

[Devices subject to this condition : D53]

K67.5 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

An engine operating log listing on a monthly basis the emergency use hours of operation, maintenance and testing hours of operation, and any other hours of use with a description of the reason for operation. Additionally, each time the engine is started manually, the log shall include the date of operation and the timer reading in hours at the beginning and end of operation

The log shall be kept for a minimum of three calendar years prior to the current year and be made available to District personnel upon request. The total hours of operation for the previous calendar year shall be recorded sometime during the first 15 days of January of each year

**[RULE 1110.2, 2-1-2008; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 1470, 6-1-2007]**

[Devices subject to this condition : D95]